

In the Claims

1-50 (Canceled).

51 (new). An isolated transformed host cell that comprises one or more genetic construct that comprises SEQ ID NO: 1, SEQ ID NO: 2, and SEQ ID NO: 3.

52 (new). The isolated transformed host cell of claim 51, wherein said transformed host cell has been transformed with multiple genetic constructs.

53 (new). The isolated transformed host cell of claim 51, wherein said multiple genetic constructs contain SEQ ID NO: 1, SEQ ID NO: 2 and SEQ ID NO: 3.

54 (new). The isolated transformed host cell of claim 51, wherein said host cell has been transformed with one or more genetic constructs that provide a combination of polynucleotide fragments of SEQ ID NOs: 1, 2, and 3, wherein said combination of polynucleotide fragments provide a biosynthetic pathway for the production of albicidin or an albicidin-like antibiotic.

55 (new). A composition of matter comprising:

(a) an isolated polynucleotide comprising SEQ ID NO: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, or 25;

(b) an isolated polynucleotide encoding a polypeptide comprising SEQ ID NO: 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, or 47;

(c) an isolated polynucleotide that is complementary to a polynucleotide comprising SEQ ID NO: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, and 25;

(d) an isolated polynucleotide that is complementary to a polynucleotide encoding a polypeptide comprising SEQ ID NO: 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, or 47;

- (e) an isolated polynucleotide sequence encoding multimeric construct comprising a polynucleotide as set forth in (a), (b), (c) or (d);
- (f) a genetic construct comprising a polynucleotide sequence as set forth in (a), (b), (c) or (d);
- (g) a vector comprising a polynucleotide as set forth in (a), (b), (c) or (d);
- (h) a promoter operably linked to a polynucleotide as set forth in (a), (b) or (c);
- (i) a recombinant cell comprising a polynucleotide as set forth in (a), (b), (c) or (d); or
- (j) a genetic construct comprising at least one polynucleotide sequence comprising SEQ ID NO: 1, SEQ ID NO: 2, and SEQ ID NO: 3.

56 (new). The composition of matter according to claim 55, wherein said composition of matter comprises an isolated polynucleotide comprising SEQ ID NO: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, or 25.

57 (new). The composition of matter according to claim 56, wherein said composition of matter comprises an isolated polynucleotide comprising SEQ ID NO: 1.

58 (new). The composition of matter according to claim 56, wherein said composition of matter comprises an isolated polynucleotide comprising SEQ ID NO: 2.

59 (new). The composition of matter according to claim 56, wherein said composition of matter comprises an isolated polynucleotide comprising SEQ ID NO: 3.

60 (withdrawn). A method of making an antibiotic comprising the culturing of a transformed host cell according to claim 51 under conditions that allow for the production of said antibiotic.

61 (withdrawn). The method according to claim 60, further comprising the isolation of said antibiotic.